L6 ANSWER 47 OF 55 CANCERLIT

ACCESSION NUMBER: 97149734 CANCERLIT

DOCUMENT NUMBER: 97149734 PubMed ID: 8996528

TITLE: DNA damage inducible-gene expression following platinum

treatment in human ovarian carcinoma cell lines.

AUTHOR: Delmastro D A; Li J; Vaisman A; Solle M; Chaney S G

AUTHOR: Delmastro D A; Li J; Vaisman A; Solle M; Chaney S G CORPORATE SOURCE: Department of Medicine, School of Medicine, University of

North Carolina, Chapel Hill 27599, USA.

CONTRACT NUMBER: 5-T32-H107149-19 (NCI)

CA34082

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SOURCE: CANCER CHEMOTHERAPY AND PHARMACOLOGY, (1997) 39

(3) 245-53.

Journal code: 7806519. ISSN: 0344-5704.

PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: MEDLINE; Priority Journals

OTHER SOURCE: MEDLINE 97149734

ENTRY MONTH: 199702

ENTRY DATE: Entered STN: 19970305

Last Updated on STN: 19970509

AB PURPOSE: DNA damage-inducible genes, such as gadd153, gadd45, p21 and c-jun, have previously been shown to be induced by the chemotherapeutic agent cisplatin. One of these genes, gadd153, has previously been reported to be differentially expressed in cisplatin-resistant cell lines and, therefore, to be a potential prognostic indicator for tumor response to cisplatin-based chemotherapy. It is not currently known whether such damage-inducible genes are turned on by the DNA damage itself (e.g. by the formation of Pt-DNA adducts) or by the downstream biological consequences of that damage. It is also not known whether the increased expression of these DNA-damage-inducible

is related to immediate protective responses such as DNA repair or to more

delayed responses such as cell cycle arrest or apoptosis. These experiments were initiated to characterize more fully the nature of the DNA damage-inducible response to cisplatin treatment and to determine whether any of these genes might be useful prognostic indicators of tumor response to cisplatin chemotherapy. METHODS: The dose-response and time-course for the induction of the DNA damage-inducible genes gadd153, gadd45, p21 and c-jun were examined by Northern analysis in the human ovarian carcinoma cell line 2008 and its resistant subclone C13* following treatment with platinum anticancer agents. The extent of gene expression was correlated with cytotoxicity determined by growth inhibition assay, Pt-DNA adducts determined by atomic absorption spectrometry and inhibition of DNA synthesis determined by 3H-thymidine incorporation. RESULTS: All four genes were induced maximally in both sensitive and resistant cell lines

lethal cisplatin doses (> or = ID90). Induction was maximal between 24

48 h following exposure to the drug for all genes except c-jun which was induced by 6 h. At 24 h following cisplatin treatment the overall levels of gadd153 were less in the resistant C13* cell line than in the parental 2008 cell line, while those of gadd45 were greater in C13* than in 2008. Maximal expression of p21 and c-jun was not significantly different in the two cell lines. The dose-response of these genes

at

correlated with the cytotoxicity of cisplatin and the inhibition of DNA synthesis by cisplatin, rather than to the actual levels of Pt-DNA adducts. The more cytotoxic platinum analog, ormaplatin, also induced gadd153 and its induction was also based on cytotoxicity. CONCLUSION: These results suggest that the regulation of gadd153 and gadd45 expression

occurs thorough separate pathways in the 2008 and C13* cell lines. The DNA

damage-inducible gene response for all four damage-inducible genes tested appeared to be more directly correlated with downstream biologic effects of cisplatin damage than with actual Pt-DNA adduct levels. The

and dose-response for induction of these genes was more consistent with delayed responses such as **apoptosis** rather than more immediate responses such as DNA repair. Finally, these results strengthen previous suggestions that the expression of gadd153, and possibly other DNA damage-inducible genes, may be useful indicators of tumor response to cisplatin-based chemotherapy.

L6 ANSWER 49 OF 55 CANCERLIT

ACCESSION NUMBER: 1998642022 CANCERLIT

DOCUMENT NUMBER: 98642022

TITLE: Hematopoietic and cytogenetic responses to novel

anti-cytokine therapy in myelodysplastic syndromes (MDS)

(Meeting abstract).

AUTHOR: Raza A; Gezer S; Venugopal P; Kaizer H; Hines C; Thomas R;

Alvi S; Mundle S; Shetty V; Borok R; Loew J; Reza S; Robin E L; Rifkin S D; Alston D; Hernandez B; Shah R; Hsu W T;

Dar S; Gregory S A

CORPORATE SOURCE: Rush Cancer Institute, Chicago, IL.

SOURCE: Proc Annu Meet Am Soc Clin Oncol, (1997) 16 A22.

ISSN: 0732-183X.

DOCUMENT TYPE: (MEETING ABSTRACTS)

LANGUAGE: English

FILE SEGMENT: Institute for Cell and Developmental Biology

ENTRY MONTH: 199806

ENTRY DATE: Entered STN: 19980610

Last Updated on STN: 19980610

AB MDS are clonal stem cell disorders where the clinical paradox of pancytopenia despite cellular marrows has been ascribed to the presence

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excessive cytokine-driven **apoptotic** death of hematopoietic cells (Raza, Blood; 86:268 1995). Three cytokines associated with the dual role of stimulating CD34+ progenitors to proliferate (hypercellular marrow)

and

inducing programmed cell death in their maturing daughters (pancytopenia) were found in excessive amounts in the majority of MDS patients namely TNF-a, TGF-b and IL1-b. Suppression of these cytokines was attempted by using pentoxifylline 800 mg tid, ciprofloxacin 500 mg

bid

and decadron $4.0~\mathrm{mg}$ q am (PCD). Of 51 total MDS patients treated to date, 18 have responded with 5 patients also showing cytogenetic responses. In two successive protocols, 11 patients with RA, 1 with RARS, 4 with RAEB,

1

with RAEB-t and 1 with CMMoL responded. The therapy was successful in reducing rate of apoptosis and TNF-a/TGF-b levels. The exact significance of cytogenetic responses is unclear without longer follow-up. These data demonstrate the validity of our thesis implicating the cytokines in the genesis of the clinical syndrome and represent a novel area for further therapeutic research.

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L6 ANSWER 50 OF 55 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE

6 ANSWER 51 OF 55 CANCERLIT DUPLICATE 31

ACCESSION NUMBER: 1999035186 CANCERLIT

DOCUMENT NUMBER: 99035186 PubMed ID: 9816338

TITLE: Prognostic value of p21(WAF1) and p53 expression in breast

carcinoma: an immunohistochemical study in 261 patients

with long-term follow-up.

AUTHOR: Caffo O; Doglioni C; Veronese S; Bonzanini M; Marchetti A;

Buttitta F; Fina P; Leek R; Morelli L; Palma P D; Harris A

L; Barbareschi M

CORPORATE SOURCE: Departments of Histopathology, S. Chiara Hospital, Largo

Medaglie d'Oro, 38100, Trento, Italy.

SOURCE: CLINICAL CANCER RESEARCH, (1996 Sep) 2 (9)

1591-9.

Journal code: 9502500. ISSN: 1078-0432.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: MEDLINE; Priority Journals

OTHER SOURCE: MEDLINE 1999035186

ENTRY MONTH: 199902

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ENTRY DATE: Entered STN: 19990405

Last Updated on STN: 19990405

p21 protein (p21) inhibitor of cyclin-dependent kinases is a critical downstream effector in the p53-specific pathway of growth control and can also be induced by p53-independent pathways in relation to terminal differentiation. We investigated p21 immunoreactivity in 261 breast carcinomas (141 node negative and 120 node positive) with long-term follow-up (median, 73 months; range, 37-119). p21 was seen in 214 (82%) infiltrating tumors, staining was nuclear and heterogeneous, and the p21 labeling index ranged from 0 to 90%. Sixty-eight (32%) patients showed p21 overexpression (>10% of reactive tumor cells). p21 overexpression was associated with large tumor size, positive nodal status, high histological grade, and high mitotic count and was related to

short disease-free survival (DFS) in the whole series of patients (P = 0.04), in the node-negative subgroup (P = 0.004), and in the group of patients who did not undergo systemic adjuvant therapy (P = 0.003). In patients treated with systemic adjuvant therapy, bivariate analysis of

combined **p21** and p53 phenotypes showed that **p21**+/p53+ tumors were associated with long DFS and overall survival (OS), whereas **p21**-/p53+ tumors had the worst prognosis. In treated patients, multivariate analysis showed that the **p21**-/53+ phenotype was independently associated with short DFS and OS. Our present data support the hypothesis that **p21**/p53 heterogeneous expression may be of clinical relevance for the **therapeutic response** to chemotherapy/hormonotherapy. The **p21**-/p53+ phenotype could correspond to a situation where p53 overexpression really reflects complete abrogation of p53 function. These cases with disrupted p53 function should have impaired the G1 checkpoint and may not be able to activate the **apoptotic** cascade in response to DNA-damaging drugs.

ANSWER 52 OF 55 CANCERLIT

96625785 CANCERLIT ACCESSION NUMBER:

DOCUMENT NUMBER:

96625785

Factors involved in determining whether transforming

TITLE: growth

factor beta suppresses the transformed phenotype and/or

induces apoptosis (Meeting abstract).

Reeder M K; Isom H C AUTHOR:

CORPORATE SOURCE:

Penn State Coll. of Med., Hershey, PA.

SOURCE:

Proc Annu Meet Am Assoc Cancer Res, (1996) 37

A195.

ISSN: 0197-016X.

DOCUMENT TYPE:

(MEETING ABSTRACTS)

LANGUAGE:

English

FILE SEGMENT:

Institute for Cell and Developmental Biology

ENTRY MONTH:

199606

ENTRY DATE:

Entered STN: 19970509

Last Updated on STN: 19970509

We have developed a series of immortalized cell lines (the CWSV cell AB lines) by transfecting primary rat hepatocytes with SV40 DNA. Three cell lines, which differ in their status of tumorigenic progression, respond differently when treated with transforming growth factor beta (TGFb). An immortalized cell line, CWSV1, is essentially unaffected by TGFb. A weakly tumorigenic cell line, 14MP, is induced to undergo apoptosis by TGFb. A malignant tumor-derived cell line, 14T1, is suppressed in the transformed phenotype by TGFb. The purpose of this study was to identify factors that may contribute to these varied responses to TGFb. First, the expression of TGFb receptors was compared by crosslinking with 125I conjugated-TGFb. Using both cold TGFb competition and 125I-TGFb saturation assays, we found that the ratio of TGFb Type I to Type II receptors on the 14MP cells was much higher than the CWSV1 cells. Second, we used radiolabeling and immunoprecipitation to examine the three cell lines

with

and without TGFb treatment for p53 and SV40 T Antigen (TAg) expression and phosphorylation. Both p53 and TAg were essentially unaffected in 14MP cells. Synthesis and consequently, the level of phosphorylated p53 increased at late time points of TGFb treatment of 14T1 cells. The conclusions are (1) the varied responses of the cells to TGFb may be partially caused by differences in the TGFb receptor ratios, (2) TGFb-induced apoptosis in 14MP cells is not due to an alteration in p53 or TAg, (3) suppression of the transformed phenotype of 14T1 cells is not due to a decrease of

TAq

synthesis or phosphorylation and (4) an increase in the level and/or phosphorylation of p53 in 14T1 cells may play a role in suppression of transformed phenotype.

ANSWER 54 OF 55 CANCERLIT

96600846 CANCERLIT ACCESSION NUMBER:

DOCUMENT NUMBER: 96600846

Restoration of apoptosis in p53 deficient tumor cells TITLE:

(Meeting abstract).

Fisher D E; Bodis S; Lowe S; Takemoto C; Housman D; Jacks AUTHOR:

Div. of Pediatric Oncology, Dana-Farber Cancer Inst., CORPORATE SOURCE:

Harvard Medical School, Boston, MA.

Blood, (1994) 84 (10, Suppl 1) 111a. SOURCE:

ISSN: 0903-1936.

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Institute for Cell and Developmental Biology

ENTRY MONTH: 199603

Entered STN: 19970509 ENTRY DATE:

Last Updated on STN: 19970509

Successful killing of cancer cells, particularly hematologic AΒ malignancies,

is increasingly recognized to occur through the induction of apoptosis, a cell-encoded suicide pathway modulated by factors such as p53 and bcl-2. p53 aberrations are the commonest gene defect recognized in human cancer and may confer refractoriness to apoptosis induction. Loss of apoptosis may potentiate propagation of malignant clones and simultaneously render such cells resistant to killing by many anticancer therapies. We have examined ElA/Ras transformed fibroblasts derived from p53 knockout mice or their p53 wild-type counterparts for apoptosis induction by chemotherapies and radiation in vitro and in a nude mouse tumor model.

virtually all treatments tested, including radiation, interchelators, antimetabolites, antibiotics, topo inhibitors, and alkylating agents,

tumor cells underwent rapid apoptosis induction while p53- tumor cells were refractory. However Taxol, a microtubule targeting drug,

tumor cells independently of p53 status and produced dramatic tumor shrinkage in nude mice. Nontransformed parental fibroblasts appeared relatively refractory to Taxol, potentially explaining tumor cell selectivity as also often occurs for p53-dependent apoptosis. DNA ladders, DAPI staining, and terminal transferase-nucleotide (TUNEL) staining revealed Taxol to kill via apoptosis in both p53+ and p53- tumor cells. The cyclin inhibitor p21/Waf/Cip is a known downstream target of p53. Recent data have suggested that p21 may be induced independently of p53. Using northern blot analysis, we found that p21 RNA expression was significantly induced by Taxol treatment in p53- tumor cells, suggesting that microtubule-mediated events

may feed into cell cycle control pathways which regulate apoptosis induction. These studies demonstrate that apoptosis induction in vitro correlates with tumor response to antineoplastic therapies in an animal model. Antineoplastic therapies commonly used in humans required wildtype p53 to induce apoptosis and significant shrinkage. Taxol, which targets microtubules and functions independently of DNA damage, potently induced apoptosis in p53tumors. The cyclin inhibitor p21 was found to be induced by Taxol treatment and may provide a link to apoptosis induction

and sensitivity to anticancer therapy.

L31 ANSWER 8 OF 10 CANCERLIT

ACCESSION NUMBER: 1999285173 CANCERLIT

DOCUMENT NUMBER: 99285173 PubMed ID: 10356685

TITLE: Update on the management of advanced breast cancer.

AUTHOR: Fornier M; Munster P; Seidman A D

CORPORATE SOURCE: Breast Cancer Medicine Service, Memorial Sloan-Kettering

Cancer Center, New York, New York, USA.

SOURCE: ONCOLOGY, (1999 May) 13-(5) 647-58; discussion

660, 663-4. Ref: 88

Journal code: 8712059. ISSN: 0890-9091.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: MEDLINE; Priority Journals

OTHER SOURCE: MEDLINE 1999285173

ENTRY MONTH: 199907

ENTRY DATE: Entered STN: 19990813

Last Updated on STN: 19990813

AB Recent trials comparing single-agent vs combination therapy in metastatic breast cancer suggest that it may be time to reconsider the belief that combination chemotherapy is the gold standard of treatment. Based on the limited randomized trial data available to date, high-dose chemotherapy with stem-cell rescue should not be viewed as "state-of-the art" treatment for metastatic disease and should be used only in the context of clinical trials. Recent trials have explored the optimal dosing and scheduling of the taxanes, as well as the possible

role

of these agents in **combination** regimens. Capecitabine (Xeloda), a new oral fluoropyrimidine, appears to be comparable in efficacy to CMF (cyclophosphamide, methotrexate, and fluorouracil), and preclinical data suggest possible synergy between this agent and the taxanes. Other promising agents under study include liposome-encapsulated **doxorubicin** (TLCD-99), an immunoconjugate linking a chimeric human/mouse monoclonal antibody to **doxorubicin** molecules; MTA (LY231514), a multitargeted antifolate; and marimistat, a broad-spectrum matrix metalloproteinase inhibitor. Tamoxifen (Nolvadex) remains the most important hormonal agent, but new antiestrogens and selective estrogen receptor modulators (SERMs) may provide alternatives. The potential role of new aromatase inhibitors as first-line hormonal agents requires further

study. Finally, the possible synergy between trastuzumab (
Herceptin), a recombinant humanized monoclonal antibody to the
HER-2/neu protein, and paclitaxel (Taxol) is being studied in
two clinical trials.

L31 ANSWER 9 OF 10 CANCERLIT

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ACCESSION NUMBER: 2000140974 CANCERLIT

DOCUMENT NUMBER: 20140974 PubMed ID: 10676565

TITLE: New developments in chemotherapy of advanced breast

cancer.

AUTHOR: Lebwohl D E; Canetta R

CORPORATE SOURCE: Bristol-Myers Squibb Pharmaceutical Research Institute,

Wallingford, CT, USA.

SOURCE: ANNALS OF ONCOLOGY, (1999) 10 Suppl 6 139-46.

Ref: 64

Journal code: 9007735. ISSN: 0923-7534.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: MEDLINE; Priority Journals

OTHER SOURCE: MEDLINE 2000140974

ENTRY MONTH: 200003

ENTRY DATE: Entered STN: 20000413

Last Updated on STN: 20020726

AB Anthracyclines and taxanes are the two most active classes of chemotherapy

for the treatment of advanced breast cancer. Recent studies have investigated combination therapy including doxorubicin (Dox) and paclitaxel. The efficacy of this combination has been established in a phase III study conducted by ECOG, comparing Dox/paclitaxel versus Dox versus paclitaxel. The combination is superior to Dox or paclitaxel with respect to response rate and time to disease progression, indicating that the combination provides a new standard for the first line treatment of metastatic breast cancer

[1].

Phase II studies using higher doses of Dox and using shorter infusions of paclitaxel have suggested the combination can be further optimized; Gianni reported a 94% objective response rate using Dox 60 mg/m2 followed by paclitaxel 175 mg/m2 given over three hours [2]. The more active regimens are associated with enhanced cardiotoxicity; this toxicity can be avoided, however, by limiting the exposure to doxorubicin. The newer regimens have now been moved into phase III studies. Future progress for this disease will depend on the introduction of new agents. Two novel drugs are currently being investigated in randomised phase III trials as potentiators of Dox and/or paclitaxel. One is a monoclonal antibody from Genentech (Herceptin, trastuzumab) directed at the HER-2/neu oncogene, which is overexpressed in > 25% of breast cancers [3]. Recent results indicate that Herceptin in combination with paclitaxel (or with a Dox plus cyclophosphamide regimen) induces a higher response rate (RR) and prolongs the time to disease progression when compared to chemotherapy alone. The second agent N, N-diethyl-2[4-(phenylmethyl)-phenoxy] ethanamine. HCl (DPPE, BMS-217380-01), when combined with Dox, was associated with a higher RR than previously observed with Dox alone [4]. A randomized trial of Dox versus Dox plus DPPE is ongoing. The possible mechanisms underlying

chemo-potentiation by these agents are discussed. As new anthracycline/taxane combinations establish themselves in earlier stages of the disease, the need for effective, non-cross resistant

salvage regimens will emerge.

L10 ANSWER 67 OF 77 CANCERLIT

ACCESSION NUMBER: 95609259 CANCERLIT

DOCUMENT NUMBER: 95609259

TITLE: Markers for differentiation and apoptosis

as intermediate endpoints for the development of lung

cancer (Meeting abstract).

AUTHOR: Zhang H; Yousem S A; Elder E; Whiteside T; Levitt M L

CORPORATE SOURCE: Medical College of Pennsylvania-Allegheny Campus,

Pittsburgh, PA 15212.

SOURCE: Proc Annu Meet Am Assoc Cancer Res, (1995) 36

A1482.

ISSN: 0197-016X. (MEETING ABSTRACTS)

DOCUMENT TYPE: (MEETING LANGUAGE: English

FILE SEGMENT: Institute for Cell and Developmental Biology

ENTRY MONTH: 199508

ENTRY DATE: Entered STN: 19950809

Last Updated on STN: 19950809

In order to plan rational chemoprevention strategies for lung AΒ cancer we are attempting to identify intermediate endpoints for the development of neoplasm based on markers for squamous differentiation and apoptosis. Using immunohistochemical methodology we investigated the expression of proteins for both tissue and keratinocyte transglutaminases (tTG and kTG), involucrin, loricrin and Bcl-2, in both non-small cell lung cancers and nonmalignant lung tissues (although most of the latter were obtained from patients with lung cancer). While tTG was expressed in almost all samples, its distribution was markedly different in tumor when compared to nonmalignant tissue. Squamous carcinomas alone were kTG positive while co-expressing tTG; however, these two enzymes were differentially distributed. Almost all tumor samples expressed both involucrin and loricrin in a patchy distribution that was most prominent in squamous carcinomas. Some nonmalignant specimens also expressed these molecules, but very weakly. Bcl-2 oncoprotein was expressed in 74% of tumors, with weak or absent expression in nonmalignant specimens. Interestingly, areas expressing Bcl-2 vs tTG or kTG were mutually exclusive. In summary, markers for differentiation and apoptosis demonstrate potential for predicting the development of lung cancer. Differential expression may be even more marked when tumors are compared to tissues from healthy subjects. These markers may form a basis for the development of chemoprevention strategies

for this disease.

L18 ANSWER 47 OF 59 CANCERLIT

ACCESSION NUMBER: 95613177 CANCERLIT

DOCUMENT NUMBER: 95613177

TITLE: Flow cytometric measurement of apoptosis in

leukemic cells identified by a membrane antigen

(Meeting abstract).

AUTHOR: de la Puerta M; Benson N; Scott M; Lynch J; Braylan R

CORPORATE SOURCE: Dept. of Pathology, Univ. of Florida, Gainesville, FL.

SOURCE: Proc Annu Meet Am Soc Clin Oncol, (1995) 14 A21.

ISSN: 0732-183X.

DOCUMENT TYPE: (MEETING ABSTRACTS)

LANGUAGE: English

FILE SEGMENT: Institute for Cell and Developmental Biology

ENTRY MONTH: 199509

ENTRY DATE: Entered STN: 19950906

Last Updated on STN: 19970509

AB Since apoptotic cell death has been implicated in the response of leukemia to therapy, the accurate quantitation of leukemic cells undergoing apoptosis may have prognostic significance. This quantitation may be particularly important in cases with resistant

However, it would be difficult to accurately enumerate apoptotic leukemic cells in heterogeneous samples where the neoplastic cells represent only a fraction of all cells. We present here a flow cytometric method to recognize apoptotic leukemic cells in normal peripheral blood. We synthesized a leukemic model by mixing CD33-expressing HL-60 cells (a promyelocytic cell line) in equal proportions with ficoll hypaque-separated, monocyte-depleted peripheral blood lymphocytes from a normal donor. Apoptosis was induced by exposing the cell mixture to 10,000

uJ of ultraviolet (UV) radiation in a DNA cross-linking apparatus. Following an incubation period of 4 hr, DNA was extracted from a portion of the sample and analyzed on a 1% agarose electrophoresis gel for the presence of a 'ladder' to confirm induction of apoptosis. The remaining cells were exposed to phycoerythrin-conjugated, anti-CD33 monoclonal antibody or normal mouse IgG (negative control). The samples were then fixed with FACSLYSE [Becton Dickinson Immunocytometry Systems (BDIS)]

and exposed to biotinylated dUTP in presence of terminal deoxynucleotidyl transferase (Tdt), followed by fluorescein isothiocyanate (FITC)-conjugated avidin to selectively label apoptotic cells. Cells not exposed to UV radiation, and cells exposed to UV and dUTP but in the absence of Tdt served as controls. All samples were analyzed on a FACSort flow cytometer (BD). Only the samples exposed to UV and dUTP in the presence of Tdt showed a subpopulation of FITC-labeled HL60 cells (identified by their light scatter properties and the expression of

The normal lymphocytes in the mixture were not labeled by FITC. These results demonstrate the potential of using flow cytometric cell surface marker analysis to selectively measure apoptotic leukemic cells in heterogenous samples.

(C) American Society of Clinical Oncology 1997.

L31 ANSWER 8 OF 10 CANCERLIT

ACCESSION NUMBER: 1999285173 CANCERLIT

DOCUMENT NUMBER: 99285173 PubMed ID: 10356685

TITLE: Update on the management of advanced breast cancer.

AUTHOR: Fornier M; Munster P; Seidman A D

CORPORATE SOURCE: Breast Cancer Medicine Service, Memorial Sloan-Kettering

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SOURCE: ONCOLOGY, (1999 May) 13 (5) 647-58; discussion

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PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: MEDLINE; Priority Journals

OTHER SOURCE: MEDLINE 1999285173

ENTRY MONTH: 199907

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ENTRY DATE: Entered STN: 19990813

Last Updated on STN: 19990813

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L31 ANSWER 9 OF 10 CANCERLIT

ACCESSION NUMBER: 2000140974 CANCERLIT

DOCUMENT NUMBER: 20140974 PubMed ID: 10676565

TITLE: New developments in chemotherapy of advanced breast

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AUTHOR: Lebwohl D E; Canetta R

CORPORATE SOURCE: Bristol-Myers Squibb Pharmaceutical Research Institute,

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DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: MEDLINE; Priority Journals

OTHER SOURCE: MEDLINE 2000140974

ENTRY MONTH: 200003

ENTRY DATE: Entered STN: 20000413

Last Updated on STN: 20020726

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toxicity can be avoided, however, by limiting the exposure to doxorubicin. The newer regimens have now been moved into phase III studies. Future progress for this disease will depend on the introduction of new agents. Two novel drugs are currently being investigated in randomised phase III trials as potentiators of Dox and/or paclitaxel. One is a monoclonal antibody from Genentech (Herceptin, trastuzumab) directed at the HER-2/neu oncogene, which is overexpressed in > 25% of breast cancers [3]. Recent results indicate that Herceptin in

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higher RR than previously observed with Dox alone [4]. A randomized trial of Dox versus Dox plus DPPE is ongoing. The possible mechanisms underlying

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salvage regimens will emerge.